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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [The Query Language to XML Documents Connected by XLink Links](#)


D. A. Lizorkin

May 2005 **Programming and Computing Software**, Volume 31 Issue 3**Publisher:** Plenum PressAdditional Information: [full citation](#), [abstract](#), [index terms](#)

The XML linking language (XLink) is a language for describing links between resources by means of XML attributes and a special namespace. The specification of the XLink language developed by the World Wide Web consortium provides only data structures for describing links and a minimal model of their behavior. In this paper, a language that allows the application to transparently formulate queries to XLink links and traverse the arcs determined by these links is suggested. The suggested language ...

2 [Information retrieval session 7: web: Combining link-based and content-based methods for web document classification](#)

Pável Calado, Marco Cristo, Edleno Moura, Nivio Ziviani, Berthier Ribeiro-Neto, Marcos André Gonçalves

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management****Publisher:** ACM PressFull text available:  [pdf\(206.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper studies how link information can be used to improve classification results for Web collections. We evaluate four different measures of subject similarity, derived from the Web link structure, and determine how accurate they are in predicting document categories. Using a Bayesian network model, we combine these measures with the results obtained by traditional content-based classifiers. Experiments on a Web directory show that best results are achieved when links from pages outside the ...

Keywords: Bayesian networks, classification, link analysis, web**3** [THESUS: Organizing Web document collections based on link semantics](#)

Maria Halkidi, Benjamin Nguyen, Iraklis Varlamis, Michalis Vazirgiannis

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(262.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The requirements for effective search and management of the WWW are stronger than ever. Currently Web documents are classified based on their content not taking into account the fact that these documents are connected to each other by links. We claim that a page's classification is enriched by the detection of its incoming links' semantics. This would enable effective browsing and enhance the validity of search results in the WWW context. Another aspect that is underaddressed and str ...

Keywords: Document clustering, Link analysis, Link management, Semantics, Similarity measure, World Wide Web


4 [Link aggregation: Untangling compound documents on the web](#)



Nadav Eiron, Kevin S. McCurley

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Publisher: ACM Press

Full text available:  [pdf\(192.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most text analysis is designed to deal with the concept of a "document", namely a cohesive presentation of thought on a unifying subject. By contrast, individual nodes on the World Wide Web tend to have a much smaller granularity than text documents. We claim that the notions of "document" and "web node" are not synonymous, and that authors often tend to deploy documents as collections of URLs, which we call "compound documents". In this paper we present new techniques for identifying and workin ...



Keywords: composites, hypertext, information retrieval, semantic web, wasted space

5 [Technical papers: design recovery and documentation: Recovering documentation-to-source-code traceability links using latent semantic indexing](#)

Andrian Marcus, Jonathan I. Maletic

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available:  [pdf\(1.15 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

An information retrieval technique, latent semantic indexing, is used to automatically identify traceability links from system documentation to program source code. The results of two experiments to identify links in existing software systems (i.e., the LEDA library, and Albergate) are presented. These results are compared with other similar type experimental results of traceability link identification using different types of information retrieval techniques. The method presented proves to give ...


6 [Linking documents: XLinkProxy: external linkbases with XLink](#)



Paolo Ciancarini, Federico Folli, Davide Rossi, Fabio Vitali

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available:  [pdf\(282.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the linking model of the World Wide Web each link is stored in the referring document within an attribute of the A tag. All the hyperlink defined this way can reference a single resource or a single fragment. With the evolution of Web technologies more powerful

linking languages (XLink and XPointer) have been proposed. Here we introduce XLinkProxy, a Web application that allows sophisticated hyperlink (defined using XLink and XPointer) to be defined outside referring documents, giving users th ...

Keywords: XLink, XPointer, external linkbases

7 Linking documents: An open linking service supporting the authoring of web documents



Renato Bulcao Neto, Claudia Akemi Izeki, Maria da Graça Pimentel, Renata Pontin Fortes, Khai Nhut Truong
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**
Publisher: ACM Press

Full text available: pdf(447.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Both content driven web authors and application designers may have their attention deviated from their main task when they have to be concerned with the generation of elaborated linking structures. This work aims to demonstrate how a metadata-enhanced web-based open linking service can be exploited towards supporting content driven authors in their tasks. The following results are presented in this paper: (a) the Web Linking Service (WLS), a novel open hypermedia system that stores and exchanges ...

Keywords: RDF-based metadata, content driven authoring, document engineering, open linking service, web engineering

8 Linking documents: XConnector: extending XLink to provide multimedia synchronization



Débora C. Muchaluat-Saade, Rogério F. Rodrigues, Luiz Fernando G. Soares
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**
Publisher: ACM Press

Full text available: pdf(267.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes XConnector, a language for the creation of complex hypermedia relations with causal or constraint semantics. XConnector allows the definition of relations independently of which resources are related. Another feature is the specification of relation libraries, providing reuse in relationship definition. The main goal is to improve linking languages or the linking modules of hypermedia authoring languages in order to provide multimedia synchronization capabilities using links. ...

Keywords: XConnector, XLink, hypermedia connector, links, multimedia synchronization

9 Links for a better web: Enhanced web document summarization using hyperlinks



J.-Y. Delort, B. Bouchon-Meunier, M. Rifqi
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**
Publisher: ACM Press

Full text available: pdf(167.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses the issue of Web document summarization. As textual content of Web documents is often scarce or irrelevant and existing summarization techniques are based on it, many Web pages and websites cannot be suitably summarized. We consider the context of a Web document by the textual content of all the documents linking to it.

To summarize a target Web document, a context-based summarizer has to perform a preprocessing task, during which it will be decided which pieces of informati ...

Keywords: context, hyperlinks, summarization, web document

10 Xanalogical structure, needed now more than ever: parallel documents, deep links to content, deep versioning, and deep re-use



Theodor Holm Nelson

December 1999 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available: pdf(787.72 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Querying structured documents with hypertext links using OODBMS



V. Christophides, A. Rizk

September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology**

Publisher: ACM Press

Full text available: pdf(1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hierarchical logical structure and hypertext links are complementary and can be combined to build more powerful document management systems. Previous work exploits this complementarity for building better document processors, browsers and editing tools, but not for building sophisticated querying mechanisms. Querying in hypertext has been a requirement since [19] and has already been elaborated in many hypertext systems, but has not yet been used for hypertext systems superimposed on an und ...

Keywords: hypertexts, information retrieval, object oriented databases, path expressions, query languages, structured documents

12 Document Analysis and Retrieval: Latent semantic linking over homogeneous repositories



Alessandra Alaniz Macedo, Maria da Graça Campos Pimentel, José Antonio Camacho Guerrero
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(305.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a framework for the automatic generation of links based on salient semantic structures extracted from homogeneous web repositories, and discuss an implementation of the framework. For this study, we consider homogeneous the repositories of the eClass, an instrumented environment that automatically captures details of a lecture and provides effective multimedia-enhanced web-based interfaces for users to review the lecture, and the CoWeb, a web-based service for collaborative authorin ...

Keywords: automatic linking, information integration, information retrieval, semantic structures

13 Link Analysis: Improvement of HITS-based algorithms on web documents



Longzhuang Li, Yi Shang, Wei Zhang

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(214.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present two ways to improve the precision of HITS-based algorithms on Web documents. First, by analyzing the limitations of current HITS-based algorithms, we propose a new weighted HITS-based method that assigns appropriate weights to in-links of root documents. Then, we combine content analysis with HITS-based algorithms and study the effects of four representative relevance scoring methods, **VSM**, **Okapi**, **TLS**, and **CDR**, using a set of broad topic queries. Our experi ...


Keywords: HITS-based algorithms, information retrieval, relevance scoring methods

14 Document detection: DR-LINK system: phase I summary

Elizabeth D. Liddy, Sung H. Myaeng

September 1993 **Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993**


Publisher: Association for Computational Linguistics

Full text available:  pdf(1.66 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The underlying principle of the DR-LINK System is that retrieval must be at the conceptual level, not the word level. That is, a successful retrieval system must retrieve on the basis of what people **mean** in their query, not just what they say in their query. The same is true of documents - their representation needs to capture the content at the conceptual level of expression. To accomplish this human-like goal, DR-LINK aims to represent and match documents and queries at all of the avail ...

15 Linking object oriented database and hypertext to support software documentation

 Bing Wang, Peter Hitchcock

November 1992 **Proceedings of the 10th annual international conference on Systems documentation**

Publisher: ACM Press

Full text available:  pdf(733.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper describes using a general hypertext-based system InterSect to support the definition and manipulation of software documentation. Object oriented database is used as a basis for supporting both the application modelling and hypertext. There are two main advantages, firstly, InterSect supports both application modelling and corresponding hypertext structure dynamically; Secondly, InterSect supports versions of any complex object ty ...

16 Consistent framework documentation with computed links and framework contracts

 Serge Demeyer, Koen De Hondt, Patrick Steyaert

March 2000 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available:  pdf(83.03 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Text summarization: Multiple & single document summarization using DR-LINK

Mary McKenna, Elizabeth Liddy

October 1998 **Proceedings of a workshop on held at Baltimore, Maryland: October 13-15, 1998**

Publisher: Association for Computational Linguistics

Full text available:  pdf(607.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Our Tipster Phase III research objective for the Summarization task is to produce a single summary across multiple documents returned from a search on an information retrieval system. An established set of metrics to evaluate the performance of our system is not available in this field at present, so this research is also developing a procedure to evaluate the summaries we create. We hope to uncover useful metrics and evaluation variables that can be used by others working in this area.

18 Multimedia authoring: Linking multimedia presentations with their symbolic source documents: algorithm and applications



Berna Erol, Jonathan J. Hull, Dar-Shyang Lee

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(472.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An algorithm is presented that automatically matches images of presentation slides to the symbolic source file (e.g., PowerPoint™ or Acrobat™) from which they were generated. The images are captured either by tapping the video output from a laptop connected to a projector or by taking a picture of what's displayed on the screen in a conference room. The matching algorithm extracts features from the image data, including OCR output, edges, projection profiles, and layout and determine ...

Keywords: document linking, e-learning, meeting recording, multimedia meeting room, presentation recording, synchronization

19 Document creation II: Page composition using PPML as a link-editing script



Steven R. Bagley, David F. Brailsford

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(197.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advantages of a COG (Component Object Graphic) approach to the composition of PDF pages have been set out in a previous paper [1]. However if pages are to be composed in this way then the individual graphic objects must have known bounding boxes and must be correctly placed on the page in a process that resembles the link editing of a multi-module computer program. Ideally the linker should be able to utilize all declared resource information attached to each COG.

We have investiga ...

Keywords: PDF, PPML, form Xobjects, graphic objects, link editing

20 Re-linking Multi-Page Web Documents

Jim Weirich

May 1997 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(9.42 KB) Additional Information: [full citation](#), [index terms](#)

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